

> Denotes revised material in this JPM

JOB PERFORMANCE MEASURE

TASK CODE: CFO-123

TASK: Operate a Neutron Dose Rate Instrument

NAME: _____

BADGE: _____

>REFERENCES: Only references for knowledge items are listed here. The trainee is expected to identify the correct references for practical items.

1. WP 12-HP1300, Radiological Monitoring Equipment
- >2. Eberline ASP-1 & NRD Technical Manual
3. WP 12-HP1100, Radiological Surveys

TERMINAL OBJECTIVE:

Given that a radiation survey is required to be performed with a neutron detector, perform the pre-operational checks and operate the instrument per WP 12-HP1300 and WP 12-HP1100.

CONSEQUENCES OF INADEQUATE PERFORMANCE:

Improper survey results

HAZARDS (PERSONNEL/EQUIPMENT STATUS):

Personnel overexposure

PRE-REQUISITE TRAINING/ TASK COMPLETION:

1. CL 1.00 Series
2. CL 2.16, Radiation Survey Instrumentation and Techniques
3. CFO 156, Control Radioactive Sources

TOOLS/EQUIPMENT (MATERIALS REQUIRED):

- | | |
|-------------------|---|
| 1. ASP-1 with NRD | 3. Portable instrument operability check form |
| 2. Neutron Source | |

Instructions to Trainee: You shall acquire the necessary references and equipment, and complete all required documentation. Knowledge requirements shall be completed with 80% or greater accuracy. Critical step

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performance shall be completed with 100% accuracy.

Instructions to JPM Evaluator: The trainee is to perform the terminal objective, without assistance, on the job site. Provide clarification of requirements if requested by the trainee. You are encouraged to ask relevant questions to verify trainee understanding. If the trainee fails this JPM, clearly document the reason for failure and forward to the trainee's manager. Successful completion of this JPM shall be recorded on the trainee's qualification card.

>On performance items, if there is more than one means available to accomplish the step, circle the method used. Refer to the RCT-01 Qualification Standard for preference of use.

KNOWLEDGE REQUIREMENTS:

Reference	Knowledge Requirement	Pass/Fail
>2	State the various scales of the ASP-1	
>2	Describe the meter display for an ASP-1	
2	Discuss how the NRD probe measures neutrons	
1	State your actions if any of the operational checks are unsatisfactory	
>2	Describe the detector overrange indication of the ASP-1	

PERFORMANCE REQUIREMENTS:

Method	Performance Requirement	Pass/Fail
P	Verify the instrument is in calibration. #	
P	Perform a physical inspection of the instrument. #	
P	Perform a battery check. #	
>P	Perform a High Voltage check. #	
P, S	Complete Source/Response check of instrument. #	
P, S	Complete and submit the portable instrument performance check sheet for review. #	
P, S	Demonstrate proper survey techniques using the ASP-1 w/NRD probe. #	
P, S	Document the neutron survey. #	

indicates a critical step

FINAL EVALUATION:

PASS

FAIL

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COMMENTS:

EVALUATOR SIGNATURE: _____ DATE: _____

TRAINEE SIGNATURE: _____ DATE: _____

MANAGER SIGNATURE: _____ DATE: _____